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Title

1. (WO 2009/038218) BIAXIAL BIREFRINGENT COMPONENT, LIQUID CRYSTAL PROJECTOR, AND METHOD FOR MANUFACTURING BIAXIAL BIREFRINGENT COMPONENT

A phase compensator having a biaxial birefringent component (40) is fabricated by oblique deposition of an inorganic material on a surface of an evaporation path of the inorganic material is controlled in a predetermined angular range to a surface normal of the base plate (69) is oscillated in a horizontal direction. The phase compensator is arranged such that its slow axis (L3) of tilt components (24a, 24b) in a liquid crystal panel (20), and that an index ellipsoid (41) is tilted in an opposite direction to the tilt components (24a, 24b).

2. (WO 2009/034109) ILLUMINATION SYSTEM OF A MICROLITHOGRAPHIC PROJECTION EXPOSURE APPARATUS

The invention concerns an illumination system of a microlithographic projection exposure apparatus comprising a mirror arrangement (93, 140, 250, 340, 540, 940) which has a plurality of mirror units (141, 142, 143, 341, 342, 343, 541, 542, 543), wherein said mirror units are arranged independently of each other for altering an angle distribution of the light reflected by the mirror arrangement (21, 43, 45, 52, 63, 84, 940), and at least one element (20, 42a, 44, 51, 62, 64, 71, 81, 91, 130, 200, 260, 330, 530, 930) arranged in front of the mirror arrangement (93, 84, 93, 140, 250, 340, 540, 940) in the light propagation direction for producing at least two different states...

3. (WO 2009/032901) BIOSENSORS AND RELATED METHODS

Provided herein are biosensors that comprise a biological signal source linked to a substrate by a peptide nucleic acid spacer and a biosensor. In one embodiment, the biosensor is used to detect prostate-specific antigen.

4. (WO 2009/025648) LOOSELY-COUPLED OSCILLATOR

Aspects and embodiments of the present invention provide a loosely-coupled oscillator including a sensor circuit and an electronic device physically connected. In some embodiments, the electronic device includes an amplifier stage and a feedback network and the sensor circuit includes more LC circuits. When electromagnetically connected, the sensor circuit and electronic device form an oscillator that is adapted to a resonant frequency of the sensor circuit can be obtained based on the oscillation signal. The sensor circuit may be implanted in a resonant frequency of the sensor circuit can be used to determine characteristics of the object.

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5. (WO 2009/024971) FINGER-WORN DEVICES AND RELATED METHODS OF USE 26.02.2009 A61H 1/02 PCT/IL2008/000000
Finger-worn user input devices and methods for operating same. In some embodiments, a device includes at least one rotatable section for indicating a device state. In some embodiments, a device includes a stationary section (114), at least one rotatable section (112, 912) and one or more rotatable sections are tiltable. In some embodiments, a device further includes one or more mechanisms used for sensing (118, 128, 128a, 134, 136, 121b), communication (140), power generation (161, 3542), light generation (161, 3542), and the like.
6. (WO 2008/128372) TRANSMISSION INTERFEROMETRIC ADSORPTION SENSOR 30.10.2008 G01N 21/31 PCT/CH2008/000000
A method and devices are presented for the measurement of adsorption based on thin-film interference at interfaces of a number of transparent layers, wherein the transparent layers have a total thickness of 2-100 μm , wherein the secondary interference fringes are reflected at the optical interfaces, wherever the refractive index exhibits a discontinuity, wherein 5-100 secondary fringes are detected and used for the evaluation of the adsorption.
7. (WO 2008/123935) ULTRATHIN MAGNESIUM NANOBLADES 16.10.2008 B82B 1/00 PCT/US2008/000000
A nanostructure includes a plurality of metal nanoblades positioned with one edge on a substrate. Each of the plurality of metal nanoblades has a length to width ratio and a width smaller than a length. A method of storing hydrogen includes coating a plurality of magnesium nanoblades with a hydrogen storage catalyst and storing hydrogen by chemically forming magnesium hydride with the plurality of magnesium nanoblades.
8. (WO 2008/086616) SCANNING MECHANISMS FOR IMAGING PROBE 24.07.2008 A61B 1/045 PCT/CA2008/000000
The present invention provides scanning mechanisms for imaging probes using for imaging mammalian tissues and structures using high frequency ultrasound and/or optical coherence tomography. The imaging probes include adjustable rotational drive for rotational motion to an imaging assembly containing either optical or ultrasound transducers which emit energy into the surrounding tissue. The imaging assembly includes a scanning mechanism having including a movable member configured to deliver the energy beam along a path snail at a variable angle with respect to said longitudinal axis to give forward and side viewing capability of the imaging assembly.
9. (WO 2008/086613) IMAGING PROBE WITH COMBINED ULTRASOUND AND OPTICAL MEANS OF IMAGING 24.07.2008 G01D 5/347 PCT/CA2008/000000
The present invention provides an imaging probe for imaging mammalian tissues and structures using high resolution imaging, including ultrasound and optical coherence tomography. The imaging probes structures using high resolution imaging use combined high frequency ultrasound and optical coherence tomography (OCT) and to accurately co-registering of images obtained from the ultrasound and optical image signals during scanning a region of interest.
10. (WO 2008/068752) FORMATION OF ORGANIC NANOSTRUCTURE ARRAY 12.06.2008 C07K 5/06 PCT/IL2007/000000
A nanostructure array is disclosed. The nanostructure array comprises a plurality of elongated organic nanostructures arranged on a substrate.
11. (WO 2008/044612) EXPOSURE APPARATUS, EXPOSURE METHOD, AND DEVICE 17.04.2008 G03F 7/20 PCT/IL2007/000000

An exposure apparatus includes a first optical member from which an exposure beam is emitted; a first object movable at a light-exit member; a second object movable, independently of the first object, at the light-exit side of the first optical member; and a driving unit that moves the first object and the second object in a first direction within a predetermined plane including a first position opposing the first optical member. The first object and the second object are close to or in contact with each other and in which positions of the first object and the second object within the predetermined plane are shifted.

12. (WO 2007/121406) POLARIZATION BASED INTERFEROMETRIC DETECTOR

25.10.2007 G01J 4/00 PCT/US2007/014000

A sensor and method for determining the optical properties of a sample material is disclosed. The sensor comprises a light source that emits a polarized light beam having a predetermined polarization orientation with respect to the plane of incidence. The linearly polarized light beam is split into second and third light beams where the second and third light beams consist of the combined projections of the components of the first light beam. A signal processor measures the intensity difference between the second and third light beams to determine the difference induced by the sample material.

13. (WO 2007/073107) BIO MEMORY DISC AND BIO MEMORY DISK DRIVE APPARATUS AND ASSAY METHOD USING THE SAME

28.06.2007 G01N 33/483 PCT/KR2006/007310

The present invention provides a bio memory disc where a lab-on-a-chip process system including an assay-diagnosis unit, a nucleic acid amplification unit, or an immuno-assay unit and a semiconductor memory is disposed, a bio memory disc drive apparatus including a controller for controlling the bio memory disc, and an assay method using the same.

14. (WO 2007/048507) BEAM SEPARATING OPTICAL ELEMENT

03.05.2007 G02B 27/09 PCT/EP2006/004850

The invention relates to a beam separating optical element (26) for limiting an illuminating field of an incident optical beam (24) coming from a first surface (30), said first surface and said second surface enclosing an angle and forming an edge (32), said edge separating the incident optical beam into at least two sub-beams (34, 36), and having a deviation from a predetermined shape of not more than 20 µm/m length.

15. (WO 2006/135261) NANOSCALE PATTERNING AND FABRICATION METHODS

21.12.2006 H05K 3/10 PCT/NZ2006/001352

The invention disclosed relates to the formation of patterns on the surface of a substrate prepared by the deposition of clusters through a mask. The pattern is nanoscale and comprises an electrical connection between contacts on the substrate.

16. (WO 2006/123188) THERMAL CONTROL FILM FOR SPACECRAFT

23.11.2006 B64G 1/22 PCT/GB2006/001231

A thermal control film for use in spacecraft comprising a multi-layer interference filter adapted to exhibit high reflectivity to solar radiation across the microwave spectrum and high emissivity in the far infrared is provided. The film is free from metal and extends over the entire surface of the spacecraft. Such a film exhibits the desired thermo-optical properties for a thermal control radiator surface and can be used for communications or radar antenna without disrupting the radio signal.

17. (WO 2006/108642) ORGANIC THIN FILM INSULATOR

19.10.2006 B05D 1/18 PCT/EP2006/008642

The present invention relates to a layer system with an organic thin film having insulation properties, and a microelectronic device or circuit element as a transistor or a magnetic tunnel junction. The layer system comprises a substrate (which can also be a thin film deposited onto a substrate) of functionalized molecules chemisorbed on the substrate which is cross-linked in the lateral direction, and a electrically conductive or ferromagnetic layer on the top of the monolayer.

Changes are introduced into the structure of the film by the application of a light source, which may be a laser or a conventional light source, to the film. The film may be fabricated under vacuum in hours. The film structure is intrinsically acentric, and the orientation is robust.

25. (WO 2004/057413) DEVICE AND METHOD FOR AN OPTICAL TUNABLE POLARIZATION INTERFERENCE FILTER 08.07.2004 G02B 27/28 PC7/ FI20030

The invention provides a tuner as constituent component for constructing a tunable or switchable spectral filter, including single and multiple filters without intermediate polarizer, over a wavelength range, which is characterized in that it comprises elements arranged in cascade along an optical axis including a dispersive polarization rotator, having its rotation angle $p(\lambda)$ varying as a function of light wavelength λ over said optical axis, an orientation-sensitive polarizing element, and means for rotating said polarizing element or/and varying said rotation angle $p(\lambda)$; where said rotator and said polarizing element are arranged in series in said spectral filter along said optical axis with ...

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sc: 974505 occurrences in 775932 records.

quartz NEAR crystal: 7612 occurrences in 2644 records.

(sc AND quartz NEAR crystal): 1410 records.

tilt* NEAR angle: 32757 occurrences in 9613 records.

((sc AND quartz NEAR crystal) AND tilt* NEAR angle): 28 records.

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